NAVSUP
NAVAL SUPPLY SYSTEMS COMMAND

NAVSUP 04 STAFF

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

SNT

www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

MATT MULLINS
CDR, USN
26 JUNE 2003

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Outline

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

- Background/Overview
- SNT Pillars
  - Databases
  - AIT
- System Access
- AIT
- Future with DLA
- Aviation Rollout
- SNT Web Page – Capabilities
- Maritime AIT Initiatives
- Summary
- SNT Web Application Demo

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review – 1998

Challenge:

- ↓ Lower Maintenance & Supply Cost

- ↑ Increase Readiness

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Overview

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Definition: ***Closed-loop, cradle-to-grave tracking maintenance critical, serialized components, prov asset visibility and material status, and enabled b automatic identification technology***

Major Benefits:

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Los
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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SNT Consists of Two Pillars

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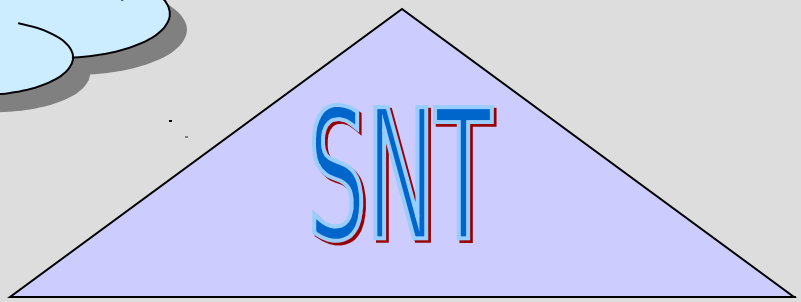
Implementation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRS/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- 2D PDF417
- ISO15418/15434
- MILSTD129
- MILSTD130
- MSL
- IRRD

SECOND

Automatic Identificatio Technology (AIT) is used by the SNT to maintain data accurac

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Aviation Asset/Information Flow

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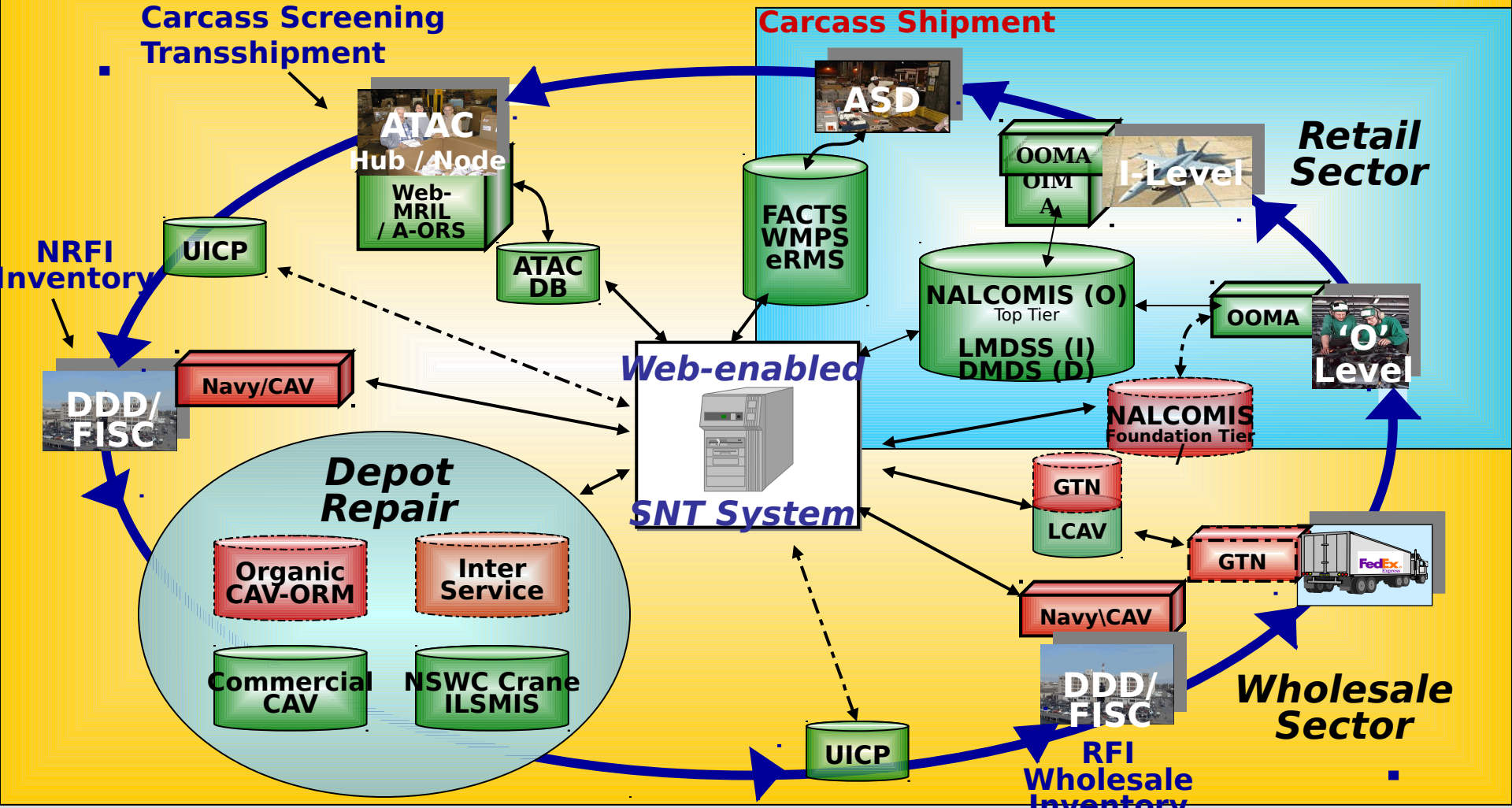
Information Systems

Overview



Connectivity | Not Connected | S/N | No | Asset Flow

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CMB

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AIT

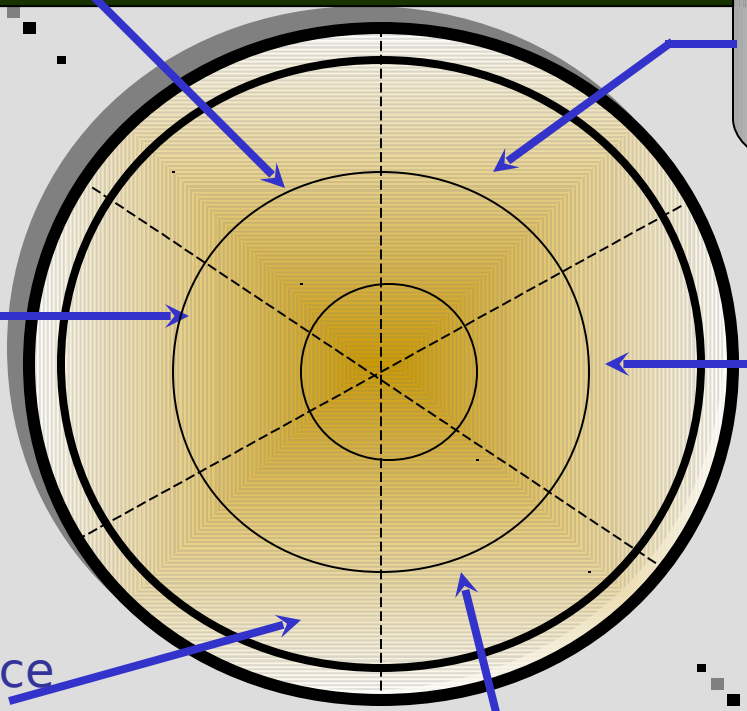
Contact Memory Button CMB

Scheduled Removal Component Card

Nameplate Data

Maintenance History**

Warranty Data



CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

**Use TBD within aviation maintenance

Available for Vendor Use

Available for Future Navy Use

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Military Standards Product Marking

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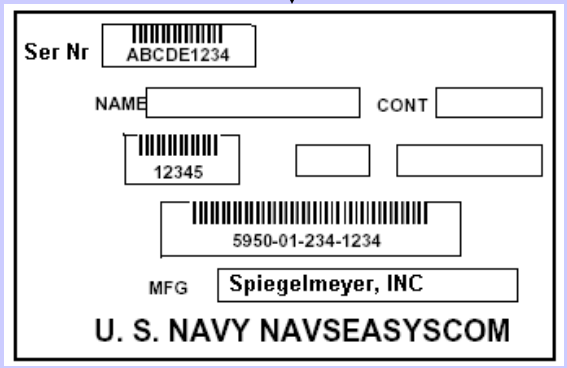
AIT

Mil-Std 130 Identification Marking of U. S. Property Product Marking

Today's Standard



Tomorrow's Standard

CMB

2D Data Matrix

Cage V2345
PN 33489-12
NSN 5835-01-141-5888
Ser: 45367

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Military Standards Package Marking

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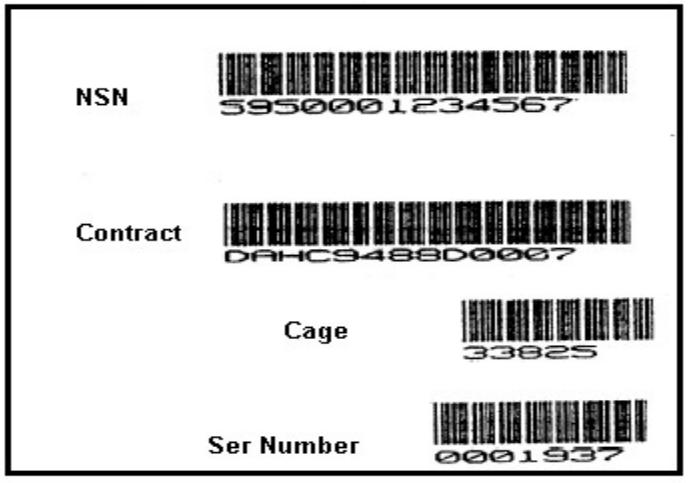
AIT

Mil Std 129 Package Marking

Today's Standard



Tomorrow's Standard

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Contracts

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Package marking

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

Mil-Std 129 PDF417
2D
ANSI MH 10

Product Marking

Nameplate Data

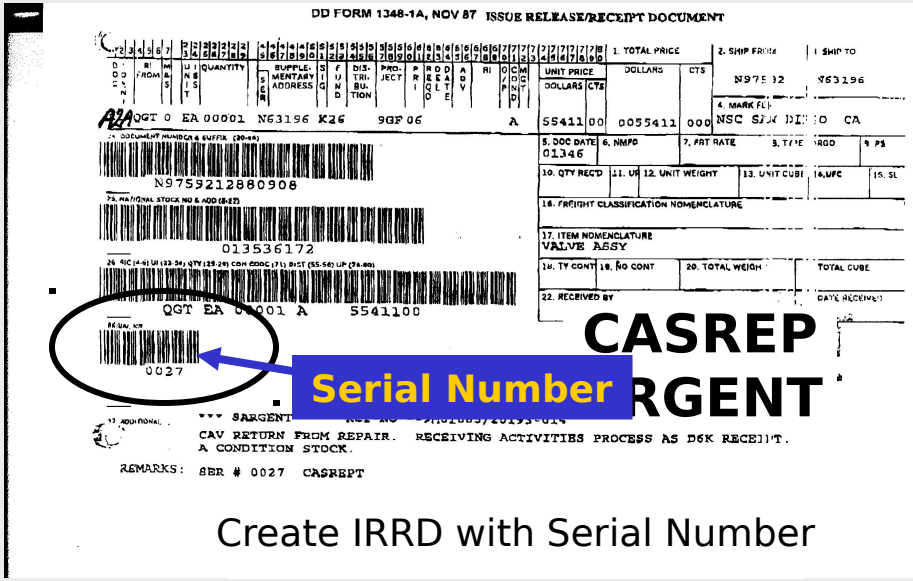
CMB

CAGE: V23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade

2D

AIT

Invoices



Create IRRD with Serial Number

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SIM / SNT Parallel Goals

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Summary

DRID 54

Optimize Logistics Processes to Minimize Customer Wait Time (CWT) using Variance Based Metrics	Customer Confidence In a Simplified Priority System With Time Definite Delivery	Total Asset Visibility Through Use of AIT, Shared Data Environment and Other Applications	Real-Time, Actionable, Web-Based Logistics Information Systems
FY02	FY02	FY04	FY04

Complements

- SUPER REG
- DoD 5000.2 Acquisition
- SIM Directive
- ADC 44 & 89
- DoD UID Guide 9 May 03

Navy Enterprise Team Ships

Supply Maintenance Aviation Reengineering Team SMART ERP NAVSUP ★ NAVAIR

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Wholesale System Reporting S/N

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Future

Coming Soon
DSS Reports SN of Selected Items For Receipts/ Issues

Web-enabled

SNT System

SNT WEB Site Accesses Navy Repository

DDNV 12/8/02 – 3/3/03
DDDC/DDCN 1/12/03 – 3/3/03

Receipts	W/ SN	W/O SN
DDNV	6	22
DDDC	193	112
DDCN	493	201
Issues		
DDNV	15	9
DDDC	95	164
DDCN	470	314

Navy Repository

Supply - Aviation 5 Year Plan

Aviation Rollout

T/M/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	$152,783.25	$272,412.00	$136,000.00	$605,932.55
CH-53E	164	170	34,850	$544,705.50	$817,236.00	$136,000.00	$1,597,820.10
CH-53D	44	104	5,720	$89,403.60	$272,412.00	$83,200.00	$486,995.50
MH-60	342	300	128,250	$2,004,547.50	$3,268,944.00	$240,000.00	$5,665,423.90
[illegible]	111	400	55,500	$867,465.00	$708,271.20	$320,000.00	$1,712,510.98
EA-6A/B	26	469	9,380	$146,609.40	$163,447.20	$375,200.00	[illegible]
[illegible]	94	196	47,530	$742,893.90	$898,959.60	$156,800.00	$1,757,972.50
[illegible]	126	132	20,790	$324,947.70	$599,306.40	$105,600.00	[illegible]
[illegible]46E	280	70	20,125	$314,553.75	$926,200.80	$56,000.00	$1,383,946.57
CH/HH-46	79	70	6,913	$108,042.38	$435,859.20	$56,000.00	$609,546.56
EA-6B	124	144	22,320	$348,861.60	$1,035,165.60	$115,200.00	$1,659,147.94
MV/CV/HV-22	458	203	116,218	$1,816,479.53	$3,922,732.80	$162,400.00	$6,254,890.39
AV-8	172	921	198,015	$3,094,974.45	$871,718.40	$736,800.00	$4,899,087.53
F-14A/B/D	193	200	48,250	$754,147.50	$871,718.40	$160,000.00	$1,940,564.86
P-3's	264	75	24,750	$386,842.50	$1,797,919.20	$60,000.00	$2,452,987.68
Cargo	295	175	64,531	$1,008,623.44	$2,724,120.00	$140,000.00	$4,297,527.69
Trainers	515	129	83,044	$1,297,973.81	$817,236.00	$103,200.00	$2,389,150.46
E-2C	75	145	13,594	$212,470.31	$1,525,507.20	$116,000.00	$1,963,874.10
C-2A	38	145	6,888	$107,651.63	$217,929.60	$116,000.00	$461,500.85
F-18ABCD	745	200	186,250	$2,911,087.50	$4,794,451.20	$160,000.00	$8,327,383.34
F-18EF	548	240	164,400	$2,569,572.00	$2,179,296.00	$192,000.00	$5,205,021.20
Misc Support							$2,805,000.00
Total			1,267,091	$19,804,636.24	$29,120,842.80	$3,726,400.00	$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = $58,211,346

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Steps to Marking Parts

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- Identify Parts to be Marked
- Get Approval
- Update Drawings & Technical Manuals & Directives
- Provide Configuration & ILS Support
- Establish Plan for Marking
  - Plane Side
  - Warehouse (Wholesale & Retail)
  - Amend Repair Contracts/ New Items for Supply

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www.snt.navsup.navy.mil New Homepage

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Web Page

SNTS \ Asset Visibility \ Retrograde - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Search Favorites History

Address https://www.snt.navsup.navy.mil/queries/AssetVisibility/Retrograde/default.shtml Go Links

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Retrograde

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out

Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty

Search Criteria

Serial Number:

Document Number:

UIC: r03363

NIIN:

Lead TCN:

Search Reset

<< Back to Asset Visibility

Submit a Batch Query

Results

Retrograde Results > Document Number Tracking Detail

Export to Microsoft® Excel®

Printer Friendly Version

	Origin	xShip / ATAC Hub or Node	xShip / ATAC Hub or Node	DOP/DSP
Document Number	R033633072G660	R033633072G660	R033633072G660	R033633072G660
NIIN	008684353	008684353	008684353	008684353
Serial Number	BMAC-B4-0068			
Quantity	1	1	1	1
Condition Code	F	F	F	F
Activity	R03363 USS KITTY HAWK CV 63	N4533A	N46433 ATAC HUB North Island, CA	SW3122
Date Received	N/A	25 Mar 2003	16 Apr 2003	25 Apr 2003
Ship To	SW3122	N46433 ATAC HUB North Island, CA	SW3122	N/A
Date Shipped	25 Mar 2003		16 Apr 2003	N/A
LTCN	N/A	R033633072G660RXX	N443293091GK42AXX	N/A
Transportation Mode	N/A	F - Air, Air Mobility Command	T - Air, Air Freight Forwarder	N/A
RCDN	N/A	N/A	N/A	
Signature	N/A			HARDEMAN
(Data Source)	WMPS	ATAC	ATAC	ATAC/CAV

Done Internet

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Carcass Watch Notification

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Dear _____
This is an email notifying you of the status of your Carcass Watches:
Document Number: N00188-3155-GC23
NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 0
Shipped From: N00188 - NAVAL AIR STATION OCEANA
Date Shipped:
LTCN:
Transportation Mode: -
Ship To: N68620 - ATAC HUB Norfolk, VA
Date Received:

NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 1
Shipped From: N68620 - ATAC HUB Norfolk, VA
Date Shipped:
LTCN: N001883155GC23XXX
Transportation Mode: T - Air, Air Freight Forwarder
Ship To: SW3142
Date Received: 2003-06-05

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SNT Web Page Query Results

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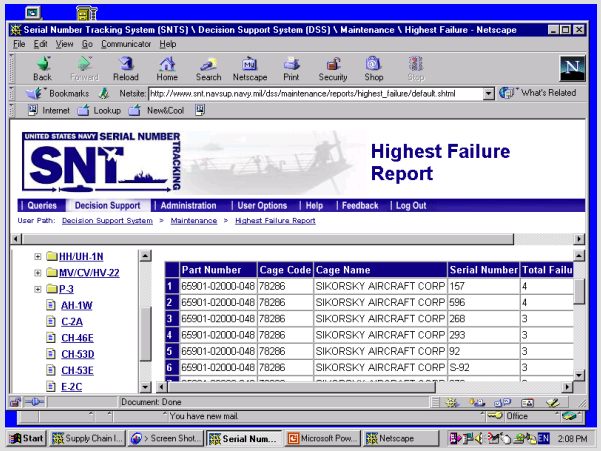
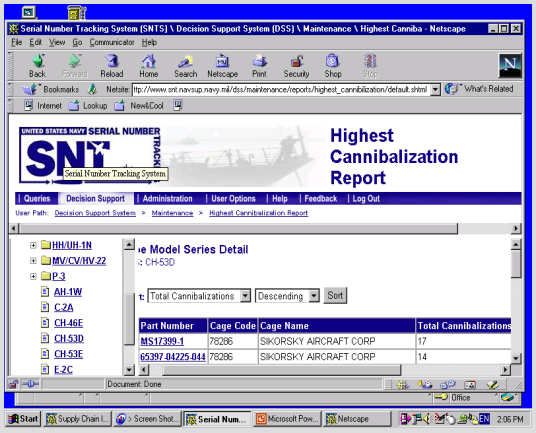
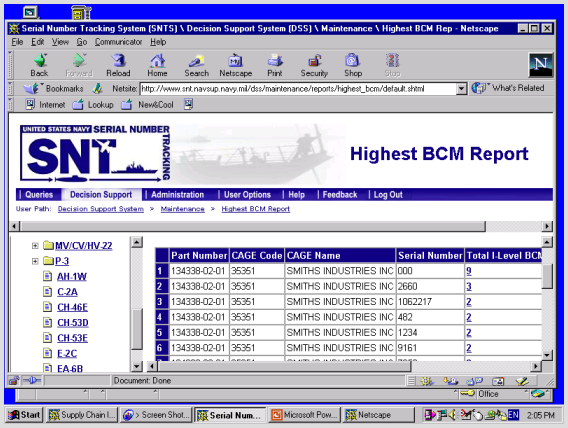
Decision Support

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports







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SNT Web Page Query Results

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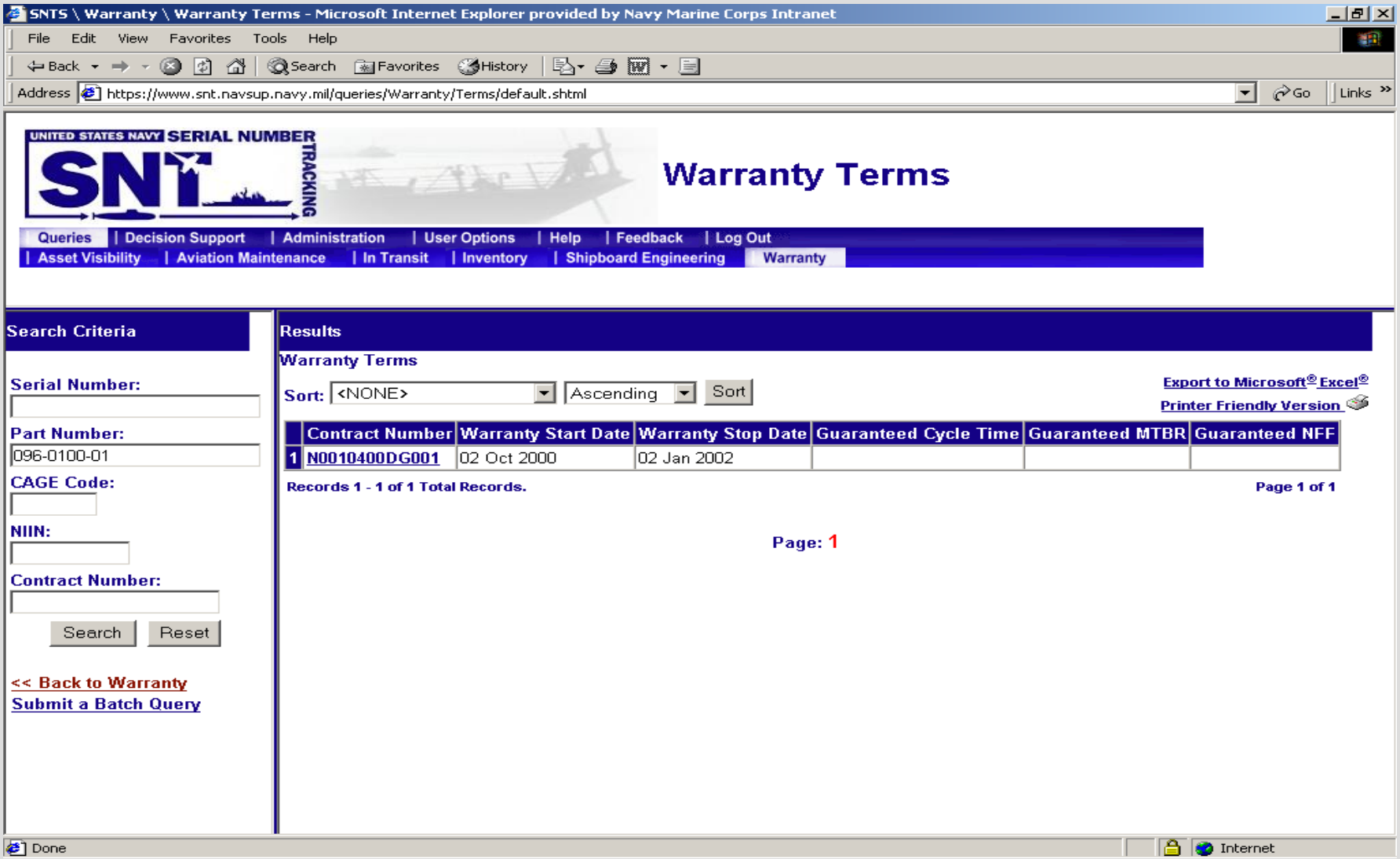
Warranty


SNTS \ Warranty \ Warranty Terms - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.snt.navsup.navy.mil/queries/Warranty/Terms/default.shtml
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Warranty Terms
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty
Search Criteria
Serial Number:
Part Number:
096-0100-01
CAGE Code:
NIIN:
Contract Number:
Search
Reset
<< Back to Warranty
Submit a Batch Query
Results
Warranty Terms
Sort: <NONE> Ascending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Contract Number | Warranty Start Date | Warranty Stop Date | Guaranteed Cycle Time | Guaranteed MTBR | Guaranteed NFF
1 N0010400DG001 | 02 Oct 2000 | 02 Jan 2002
Records 1 - 1 of 1 Total Records.
Page 1 of 1
Page: 1
Done
Internet

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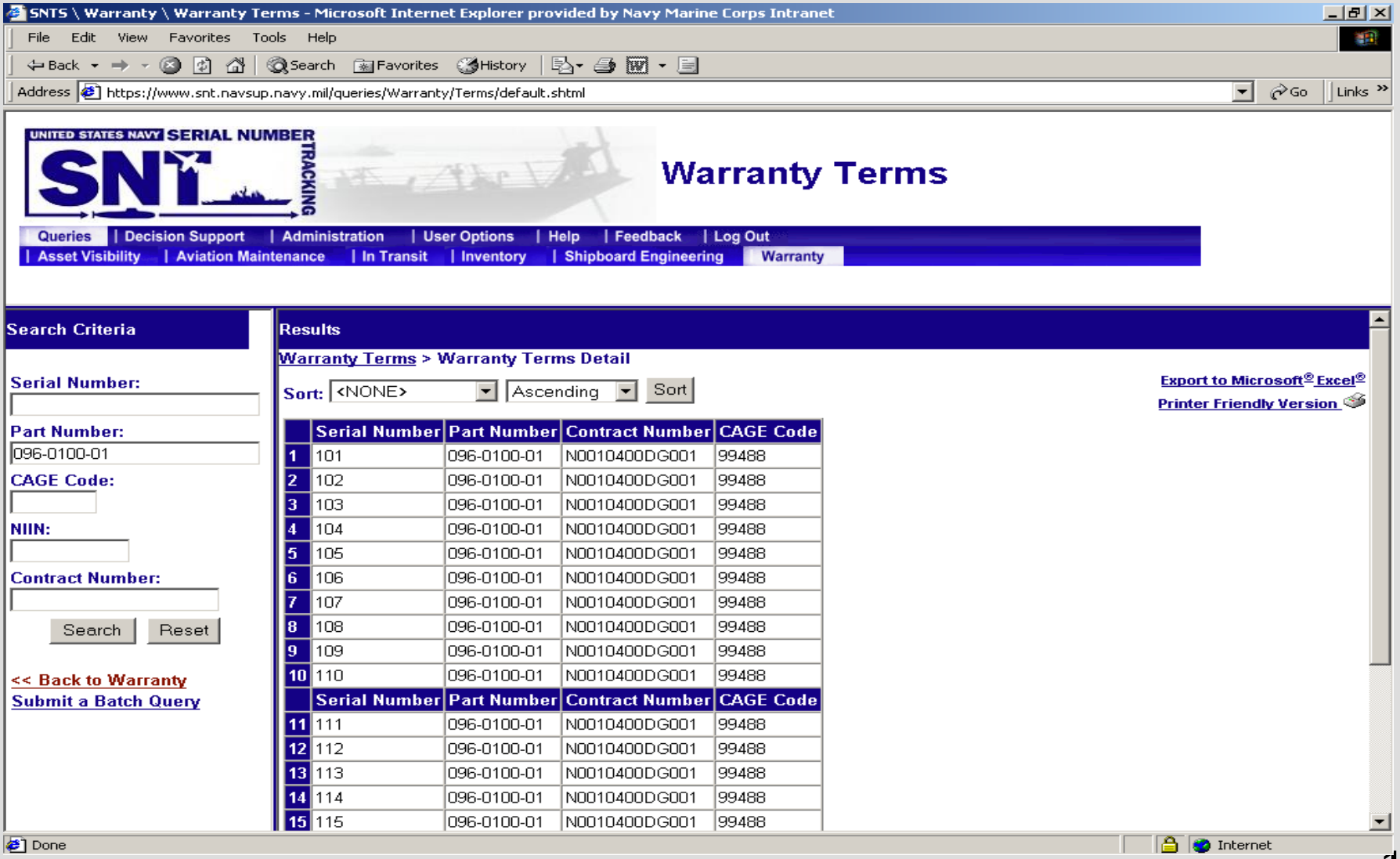
SNT Web Page Query Results

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Warranty


SNTS \ Warranty \ Warranty Terms - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
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Address https://www.snt.navsup.navy.mil/queries/Warranty/Terms/default.shtml
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UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Warranty Terms
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty
Search Criteria
Serial Number:
Part Number:
096-0100-01
CAGE Code:
NIIN:
Contract Number:
Search Reset
<< Back to Warranty
Submit a Batch Query
Results
Warranty Terms > Warranty Terms Detail
Sort: <NONE> Ascending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Done
Internet

	Serial Number	Part Number	Contract Number	CAGE Code
1	101	096-0100-01	N0010400DG001	99488
2	102	096-0100-01	N0010400DG001	99488
3	103	096-0100-01	N0010400DG001	99488
4	104	096-0100-01	N0010400DG001	99488
5	105	096-0100-01	N0010400DG001	99488
6	106	096-0100-01	N0010400DG001	99488
7	107	096-0100-01	N0010400DG001	99488
8	108	096-0100-01	N0010400DG001	99488
9	109	096-0100-01	N0010400DG001	99488
10	110	096-0100-01	N0010400DG001	99488
	Serial Number	Part Number	Contract Number	CAGE Code
11	111	096-0100-01	N0010400DG001	99488
12	112	096-0100-01	N0010400DG001	99488
13	113	096-0100-01	N0010400DG001	99488
14	114	096-0100-01	N0010400DG001	99488
15	115	096-0100-01	N0010400DG001	99488

Maritime Focus

DATA BASE ACCESS:

- CDMD-OA
  - Display Shipboard Configuration Data
- LCAV
  - In Transit Query
- ILSMIS

INITIATIVES:

- GPETE – Working with NAVSEA Code 04L52
- Ship Configuration Validation – Working with NAVSEA Code 04L51
- Rapid Securing Device (RSD)
- AN/UYQ-70
- AEGIS tubes
- MK92 TWT

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Other Initiatives

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CONTRACTS:

- Sikorsky
- General Nucleonics
- Breeze Eastern
- Package Marking Standards (DDD receipts & issues)

OTHER:

- Funding to support eRMS changes - advance receipt
- Funds for product marking
- NAVICP-M start contracts now for Package Marking w
  - Supports SNT thru DDD receipts & issues by SN

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Summary

UNITED STATES NAVY SERIAL NUMBER TRACKING
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- SNT Project well underway
- Aviation Implementation Plan rollout
  - NAVAIR/NAVSUP Joint Effort
  - Parts marking by Type Model Series of A/C underway
- SNTS Web Application on line – accessing live data
  - Decision Support and Reliability Modules
- Maritime Initiatives Important